CENTER FOR

# AGRICULTURAL BYPRODUCTS (PROFITABLE USES OF)

## CENTER

## UTAH STATE UNIVERSITY

The Center for Profitable Uses of Agricultural Byproducts was established to strengthen the economy of Utah, particularly the rural economy, by working closely with farmers, ranchers and other agricultural related businesses to transfer technologies utilizing agricultural production and processing byproducts. Byproducts of no or little value are transformed into energy and other salable items using technology developed at the center.

***Can you imagine…..***

**A technology utilizing agricultural byproducts of little or no value and transforming these byproducts into a profitable business?**

## ACCOMPLISHMENTS

A fully operational system has been built at the Caine Dairy at Utah State University and is open for visits to see the system functioning, creating a showcase of this technology. Biogas can be seen burning at this site to produce hot water. A new, larger system is soon to come on line at the Ballard pig farm in Benson, UT. This new system is designed to produce enough electricity for 65 homes while treating pig manure. The system will be housed in an attractive metal building. This system is scheduled to be fully operational in early spring, 2003. The IBR technology is very unique and easy to manage, with a high treatment rate and reliability. The Ballard system will be controlled using a touch screen computer. This Center has partnered with HEE, a new Utah company, to provide engineering design. Another new Utah company is being formed to build the systems.

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## TECHNOLOGY

The technology developed at Utah State University for the profitable use of food production and processing byproducts is manifested in two major areas: 1) anaerobic systems that can produce energy (biogas) and soil amendment from manure and food processing waste, and 2) components of a high rate aerobic bioreactor (drum composter based) system that make the process more cost effective, and the products produced by the process more valuable.

**Placement and painting of tanks for the IBR system at Ballard farm, Benson, UT**